

DISCHARGE PRINTING
ON
WOOL FABRICS



LEOPOLD CASSELLA & C^o

G. m. b. H.

FRANKFORT o. M.

667.2
C275
3392

No 3392.

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ЭТОТТЭИ ИЛЖАЯ?

АИРЛЭОАЛН?

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Preparatory Treatment of the Goods.

After washing, the goods are bleached and then chlorinated. For full particulars see our "Manual of Dyeing", Vol. IV, (No 2941) pages 135 to 137.

In order to ensure clear white discharge effects, only perfectly white goods must be employed. The yellowish tinge produced by the chloring process, should therefore be removed by treating the goods for about $\frac{1}{2}$ hour in a cold to lukewarm bath containing $\frac{3}{4}$ – $1\frac{1}{2}$ lbs bisulphite of 64° Tw. per 10 gallons water. The goods are then treated for a short time in a cold bath containing 1 quart peroxide of hydrogen per 25 gallons water and made slightly alkaline by the addition of ammonia; after this treatment they are rinsed, and dyed.

Dyestuffs coming chiefly into consideration for

Discharge Styles.

| | |
|-----------------------------|------------------------------|
| * Acid Yellow AT | * Acid Violet 4RS |
| * Fast Acid Yellow TL | * Azo Wool Violet 7R |
| * Orange GG, extra | * Cyanole FF |
| * Lanafuchsine SG | * Tetra Cyanole extra |
| * Brilliant Lanafuchsine SL | ** Discharge Blue B, G |
| * Scarlet FR, F2R, F3R | ** Discharge Black BF extra. |
| * Naphtol Red C | |

Directions for Dyeing.

For the dyestuffs marked with one asterisk ():* Start dyeing with the addition of 10 % Glauber's salt crystals and 5–10 % bisulphate of soda (varying with the depth of shade), enter the goods at about 50° C. (120° F.) raise within 30–40 minutes to boiling temperature, and allow to boil for about one hour. In the case of deep shades, some bisulphate of soda is added if necessary, in order to better exhaust the bath.

*For the dyestuffs marked with two asterisks (**):* Charge the bath with 20 % Glauber's salt crystals, 5 % acetic acid, and the dyestuff. Enter the goods lukewarm, raise within 30–40 minutes to the boil, and continue boiling for about $\frac{3}{4}$ hour. In order to exhaust the bath, 10 % bisulphate of soda are added in several portions for Discharge Blue, and 3–5 % acetic acid for Discharge Black, the bath being allowed to boil for another quarter of an hour after the last addition.

The volume of liquor is in every case 30 to 40 times the weight of the dry goods.

Directions for Discharging.

White Discharge:

| | |
|---------------|---|
| 200—300 parts | Hyraldite CW extra pat. and |
| 100—100 " | zinc white are mixed with |
| 625—525 " | neutral starch-tragacanth-thickening, then heated for about 20 minutes to 70° C. (160° F.), and stirred until cold. When completely cold, |
| 75—75 " | albumen solution 1:1 are added, and the whole passed |
| 1000 parts | through a fine sieve. |

Neutral Starch-Tragacanth-Thickening.

| | |
|---------------|---|
| 100—120 parts | wheat-starch are boiled together with |
| 490—470 " | water, |
| 400 " | tragacanth (65:1000) and |
| 10 " | glycerine for 1/2 hour, and stirred until |
| 1000 parts | [cold. |

After printing steam for a few minutes in a Mather-Platt steamer at 102° C. (216° F.), then rinse lightly in cold water, and dry.

Coloured Discharges:

| | |
|-------------|------------------------------------|
| 20—50 parts | dyestuff are dissolved in |
| 580—550 " | water, and boiled together with |
| 200 " | British gum While cooling, |
| 200 " | Hyraldite CW extra pat. are added. |
| 1000 parts | |

After printing steam for some minutes in the above-described manner, then chrome slightly (1/4—1/2 oz bichromate of potash per 10 gallons liquor), wash and dry.

For coloured discharges the following dyestuffs may be added to the discharges:

| | |
|-------------|--|
| For Yellow: | Thioflavine T Diamond Phosphine GG, R, D Para Phosphine GG, G, R Thioflavine S Diamine Fast Yellow FF pat. Primuline. |
| For Blue: | New Methylene Blue N Solid Blue R, 3R Thiocarmine R Powder Anthracene Acid Blue pat. GG and RR |
| For Red: | Erythrosine B Eosine GGF Phloxine Rosazeine B Irisamine G, G extra Azo Orseille BB. |

| | |
|------------|--|
| For Green: | New Methylene Blue N with Thioflavine T or with Diamond Phosphine GG Thiocarmine R with Thioflavine S. |
|------------|--|

| | |
|--------------------|---|
| <i>For Violet:</i> | New Methylene Blue N with Irisamine G Thiocarmine R with Azo Orseille BB. |
| <i>For Grey:</i> | Nigrosine soluble in water New Blue B. |
| <i>For Mode:</i> | Diamond Phosphine R or D with New Blue B or with Nigrosine soluble in water. |
| <i>For Brown:</i> | Diamond Phosphine D with Irisamine G and New Blue B. |

Patterns Nos. 1 to 28 of this card have been *discharged white* with Hyraldite CW extra, according to the above recipe.

Patterns Nos 29 to 32 have been *discharged in colours* with Hyraldite CW extra according to the above recipe for coloured discharges as follows:

| | | | | | | | | |
|-------|----------|----------|----|----|-------|----|----------------------|---|
| No 29 | with the | addition | of | 15 | parts | of | New Methylene Blue N | } per 1000 parts print paste. |
| No 30 | " | " | " | 40 | " | " | Thioflavine T | |
| | | | | 10 | " | " | Diamond Phosphine R | |
| No 31 | " | " | " | 24 | " | " | Thioflavine T | |
| | | | | 6 | " | " | New Methylene Blue N | |
| No 32 | " | " | " | 40 | " | " | Erythrosine B | |
| | | | | 20 | " | " | Eosine GGF | |

For full particulars see our "Manual of Dyeing", Vol. IV, (No 2941) page 155 and following.

Without guarantee.



DISCHARGE PRINTING ON WOOL FABRICS

1



2% Fast acid Yellow TL

2



2% Acid Yellow AT

3



2% Orange GG

4



2% Orange extra

5



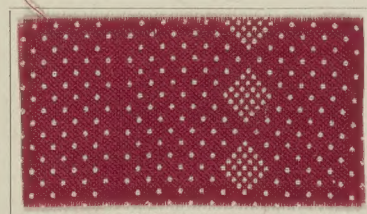
3% Scarlet FR

6



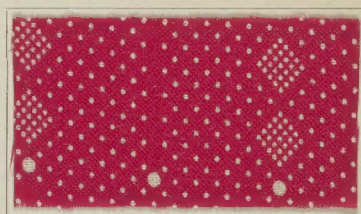
3% Scarlet F3R

7



2% Lanafuchsine SG

8



2% Brilliant Lanafuchsine SL

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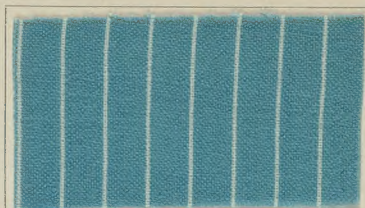
DISCHARGE PRINTING ON WOOL FABRICS

9



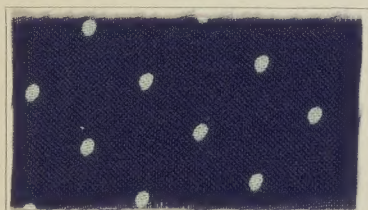
0.75 % Cyanole FF

10



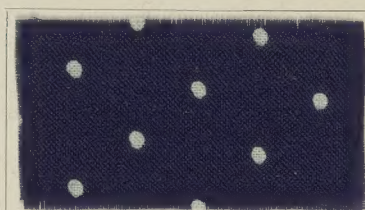
0.75 % Tetra Cyanole extra

11



3 % Discharge Blue B

12



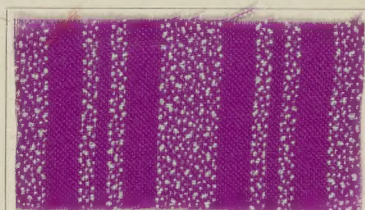
3 % Discharge Blue G

13



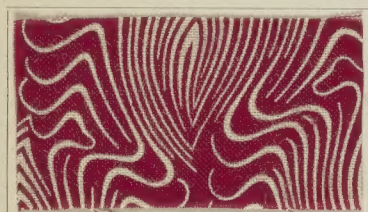
1.5 % Azo Wool Violet 7R

14



2 % Acid Violet 4RS

15



3 % Naphtol Red C

16

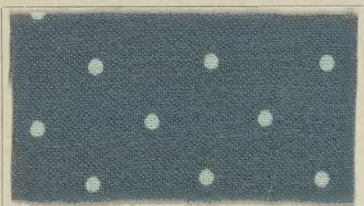


6 % Discharge Black BF extra

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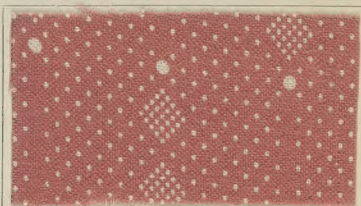
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17



0.6 % Tetra Cyanole extra
0.035 % Acid Yellow AT
0.22 % Lanafuchsine SG

18



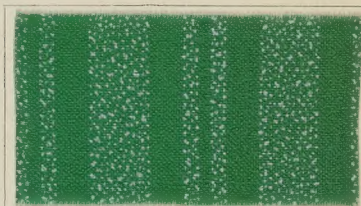
0.03 % Tetra Cyanole extra
0.1 % Acid Yellow AT
0.5 % Lanafuchsine SG

19



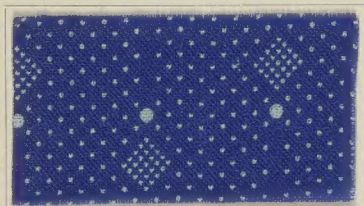
0.045 % Tetra Cyanole extra
0.12 % Acid Yellow AT
0.1 % Lanafuchsine SG

20



1.5 % Tetra Cyanole extra
0.5 % Acid Yellow AT

21



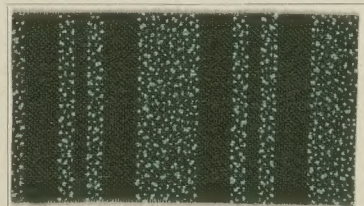
1.5 % Cyanole FF
0.5 % Azo Wool Violet 7R

22



0.36 % Tetra Cyanole extra
0.8 % Acid Yellow AT
0.73 % Lanafuchsine SG

23



1.75 % Tetra Cyanole extra
2.5 % Acid Yellow AT
0.8 % Lanafuchsine SG

24



3 % Naphtol Red C
0.3 % Azo Wool Violet 7R

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25



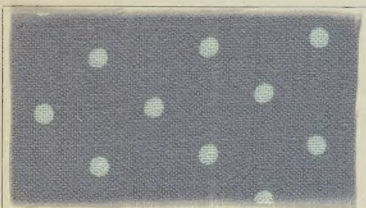
0.1 % Acid Yellow AT
0.09 % Lanafuchsine SG

26



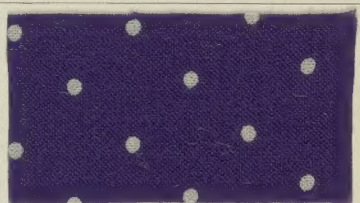
0.57 % Tetra Cyanole extra
0.05 % Acid Yellow AT
0.42 % Lanafuchsine SG

27



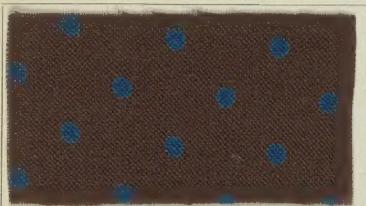
0.2 % Tetra Cyanole extra
0.02 % Acid Yellow AT
0.15 % Lanafuchsine SG

28



0.5 % Tetra Cyanole extra
0.2 % Lanafuchsine SG
1.5 % Azo Wool Violet 7R

29



0.65 % Tetra Cyanole extra
1.4 % Acid Yellow AT
2 % Lanafuchsine SG

30



5 % Naphtol Red C
0.6 % Orange GG

31



2.5 % Discharge Blue B
0.5 % Cyanole FF

32



6 % Discharge Black BF extra

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